

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

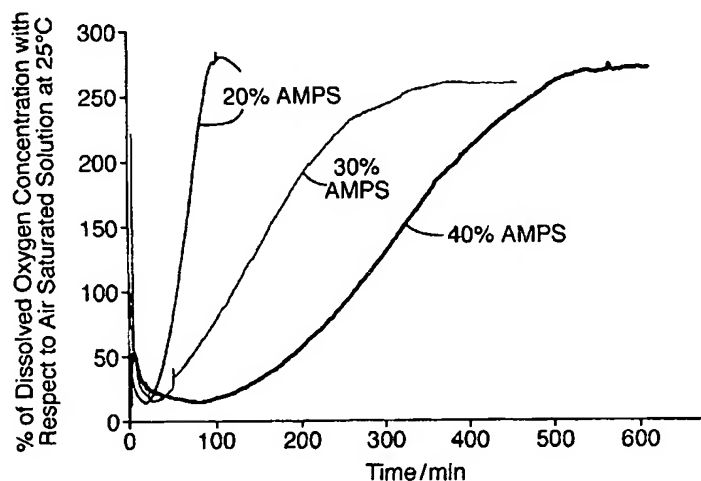
PCT

(10) International Publication Number  
**WO 2005/072783 A1**

- (51) International Patent Classification<sup>7</sup>: **A61L 15/38**,  
15/60 [GB/GB]; 85 Gypsy Lane, Irchester, Northants NN29  
7DJ (GB). JEZEK, Jan [CZ/GB]; 5 Wetenhall Road,  
Stanwick, Northants NN9 6TE (GB).
- (21) International Application Number:  
PCT/GB2005/000284 (74) Agent: **KEITH W NASH & CO.**; 90-92 Regent Street,  
Cambridge CB2 1DP (GB).
- (22) International Filing Date: 28 January 2005 (28.01.2005) (81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
04250508.1 30 January 2004 (30.01.2004) EP
- (71) Applicant (for all designated States except US): **INSENSE  
LIMITED** [GB/GB]; Colworth House, Sharnbrook, Bed-  
ford MK44 1LQ (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DAVIS, Paul, James**  
[GB/GB]; The Hawthorns, Pavenham Road, Felpersham,  
Bedford MK43 7EX (GB). **AUSTIN, Andrew, John**
- (84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: IMPROVEMENTS IN OR RELATING TO SKIN DRESSINGS



(57) Abstract: A skin dressing of the general form disclosed in WO 03/030800 comprises oxidoreductase enzyme in hydrated condition in a hydrated hydrogel of hydrophilic polymer material, wherein hydrogel comprises at least 25 % by weight of the polymer material. A currently preferred dressing comprises a lower, skin-contacting layer (18) comprising a hydrated hydrogel comprising 30 % by weight sodium poly-AMPS and 5 % by weight glucose, and an upper layer (16) comprising a hydrated hydrogel comprising 15% by weight sodium poly-AMPS, 15 % by weight ammonium poly-AMPS, and glucose oxidase. Using hydrogels with a higher concentration of polymer material is found to affect the rate of oxygen generation and hence the oxygen concentration profile beneath the dressing in use in a manner beneficial to wound healing.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*